

PATENT CLAIMS:

1. A sealing arrangement, at least one first sealing device (20) designed as an annular seal being placed between axially symmetrical components, wherein, additionally, a second sealing device (21) designed as a brush seal is arranged between the axially symmetrical components.
2. The sealing arrangement as recited in claim 1, wherein the first sealing device (20) having an annular seal design and the second sealing device (21) having a brush seal design are likewise axially symmetrical in design and are positioned between the concentrically disposed, axially symmetrical components.
3. The sealing arrangement as recited in claim 1 or 2, wherein the brush seal has a closed-type design.
4. The sealing arrangement as recited in claim 1 or 2, wherein the brush seal has an open or split-type design.
5. The sealing arrangement as recited in one or more of claims 1 through 4, wherein the brush seal is designed as a hook-type brush seal.
6. The sealing arrangement as recited in one or more of claims 1 through 5, wherein the brush seal has a plurality of bristle elements (22, 30).
7. The sealing arrangement as recited in claim 6, wherein the bristle elements (22) are wound around a guide element (24), forming a fixing point (23), and are secured by a clamping element (25) to the guide element (24).
8. The sealing arrangement as recited in one or more of claims 1 through 7, wherein the second sealing device (21) designed as a brush seal is positioned at one end in a recess (26) of a first axially symmetrical component.

9. The sealing arrangement as recited in claim 8,
wherein the brush seal is situated in the recess (26) in such a way that the fixing point (23) is positioned in the recess (26) of the first axially symmetrical component, and the unattached ends (27) of the bristle elements (22) extend toward a second axially symmetrical component.
10. The sealing arrangement as recited in claim 9,
wherein the unattached ends (27) of the bristle elements (22) engage on the second axially symmetrical component.
11. The sealing arrangement as recited in one or more of the preceding claims,
wherein the bristle elements (22) are radially preloaded in such a way that they exhibit a curved characteristic in the radial direction.
12. The sealing arrangement as recited in one or more of claims 1 through 11,
wherein the second sealing device (21) having a brush seal design is positioned so as to be axially offset from the first sealing device (20) designed as an annular seal.
13. The sealing arrangement as recited in one or more of claims 1 through 12,
wherein, in the axial direction of the axially symmetrical components, the second sealing device (21) having a brush seal design is directly contiguous to the first sealing device (20) designed as an annular seal.
14. The sealing arrangement as recited in one or more of claims 1 through 13,
wherein the first sealing device (21) having an annular seal design forms a supporting plate for the bristle elements (22) of the second sealing device (20) having a brush seal design.
15. The sealing arrangement as recited in one or more of the preceding claims,
wherein the second axially symmetrical component surrounds the first axially symmetrical component, it being possible for the second component to be made up of segments.

16. The sealing arrangement as recited in one or more of the preceding claims, wherein the first axially symmetrical component is designed as a housing (10) of a gas turbine, and the second axially symmetrical component is designed as a guide vane of the gas turbine having a plurality of vane segments (11, 12, 13, 14, 15), the first sealing device (20) having an annular seal design and, additionally, the second sealing device (21) having a brush seal design being positioned between the housing (10) and the vane segments (11, 12, 13, 14, 15) in order to seal a gap (18, 19).
17. The sealing arrangement as recited in one or more of claims 1 through 16, wherein the first sealing device (21) designed as an annular seal is a metallic piston-ring seal.
18. A use of a sealing arrangement as recited in one or more of claims 1 through 17 as a static seal between two non-rotating, axially symmetrical components.
19. A use of a sealing arrangement as recited in one or more of claims 1 through 17 as a static seal between a non-rotating housing and likewise non-rotating guide vane segments of a gas turbine, the guide vane segments being disposed with a radial clearance about the housing.